



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION(S): Blakesley et al.

U.S.S.N.: 10/600,584

GROUP ART UNIT: 1615

FILED: June 19, 2003

EXAMINER: Not Assigned

FOR: ARCHIVING OF VECTORS

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on: November 14, 2003

By: Sharon Bizokas
Sharon Bizokas

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

1. Request for Corrected Filing Receipt (2 pages);
2. Copy of Filing Receipt with changes marked in red ink (2 pages);
3. Copy of Assignment from Inventors to Life Technologies, Inc. (4 pages);
4. Copy of Merger from Life Technologies, Inc. to Invitrogen Corporation (6 pages);
5. Copy of Assignment from Invitrogen Corporation to Whatman Bioscience Limited (5 pages);
6. Transmittal of Formal Drawings (1 page);
7. Formal Drawings (3 Sheets);
8. Information Disclosure Statement (4 pages) and 1449 Form (2 pages);
9. Copy of PCT Search Report (4 pages);
10. Copy of European Search Report (6 pages);
11. This transmittal letter (1 page) (x2); and
12. Return Receipt Postcard

The Commissioner is hereby authorized to charge any excess fees that may be required, or credit any overpayment to Deposit Account No. 04-1105. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Kathryn A. Piffat, Ph.D.

Kathryn A. Piffat, Ph.D., Reg. No.: 34,901
Intellectual Property Practice Group of
EDWARDS & ANGELL, LLP
P.O. Box 9169
Boston, Massachusetts 02209
Tel.: 617-439-4444

Date: November 14, 2003

Customer No.: 21874



Attorney Docket No. 45858/55670-DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Blakesley et al.
Application No.: 10/600,584 Group No.: 1615
Filed: June 19, 2003 Examiner: Not Yet Assigned
For: ARCHIVING OF VECTORS

CERTIFICATE OF MAILING

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By:

Sharon Bizokas

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

1. Attached is a copy of the official filing receipt received from the PTO in the above application for which issuance of a corrected filing receipt is respectfully requested.

Note: The PTO will not correct the filing receipt until the application is complete (in other words, the applicant files a response to the notice to file missing parts).

2. There is an error with respect to the following data, which is:

☒ incorrectly entered

and/or

☐ omitted.

In re application of: Blakesley et al.
Application No.: 10/600,584
Filed: June 19, 2003

Error in

Correct data

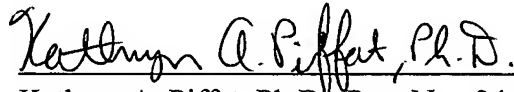
- | | |
|---|-------------------------------|
| 1. <input type="checkbox"/> Applicant's name | 1. |
| 2. <input type="checkbox"/> Applicant's address | 2. |
| 3. <input type="checkbox"/> Title | 3. |
| 4. <input type="checkbox"/> Filing Date | 4. |
| 5. <input type="checkbox"/> Serial Number | 5. |
| 6. <input type="checkbox"/> Foreign/PCT Application Re: | 6. |
| 7. <input checked="" type="checkbox"/> Other: Assignment for Published Patent Application | 7. Whatman Bioscience Limited |

3. (complete the following applicable item)

A copy of the filing receipt with the desired changes marked in red ink is enclosed for your convenience. A copy of the Assignment from the inventors to Life Technologies, Inc. a Certificate of Merger from Life Technologies, Inc. to Invitrogen Corporation and finally an Assignment from Invitrogen Corporation to Whatman Bioscience Limited are also enclosed, along with the Notices of Recordation for each document.

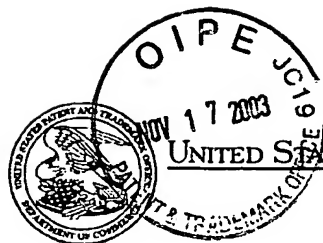
Respectfully submitted,

Date: November 14, 2003


Kathryn A. Piffat, Ph.D., Reg. No.: 34,901
Intellectual Property Practice Group of
EDWARDS & ANGELL, LLP
P.O. Box 9169
Boston, Massachusetts 02209
Tel.: 617-439-4444
Fax: 617-439-4170

Customer No.: 21874

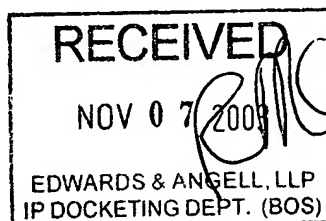
BOS2_354667.1



UNITED STATES PATENT AND TRADEMARK OFFICE

 UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/600,584	06/19/2003	1615	750	45858/55670-DIV	3	7	2

 21874
 EDWARDS & ANGELL, LLP
 P.O. BOX 9169
 BOSTON, MA 02209


CONFIRMATION NO. 5497

FILING RECEIPT



OC000000011189040

Date Mailed: 11/05/2003

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

 Robert W. Blakesley, Frederick, MD;
 Mindy D. Goldsborough, Gaithersburg, MD;

Assignment For Published Patent Application

~~Life Technologies, Inc.;~~
~~Whatman, Inc.;~~

WHATMAN BIOSCIENCE LIMITED

Domestic Priority data as claimed by applicant

 This application is a DIV of 09/354,664 07/16/1999
 which claims benefit of 60/093,073 07/16/1998
 and claims benefit of 60/100,737 09/17/1998

Foreign Applications

If Required, Foreign Filing License Granted: 11/05/2003

Projected Publication Date: 02/12/2004

Non-Publication Request: No

Early Publication Request: No

Title

Archiving of vectors

Preliminary Class

424

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JANUARY 11, 2000

PTAS

STERNE, KESSLER, GOLDSTEIN & FOX
BRIAN J. DEL BUONO
1100 NEW YORK AVE., N.W.
SUITE 600
WASHINGTON, D.C. 20005-3934



101175448A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/14/1999

REEL/FRAME: 010311/0264
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BLAKESLEY, ROBERT W.

DOC DATE: 09/01/1999

ASSIGNOR:

GOLDSBOROUGH, MINDY D.

DOC DATE: 10/04/1999

ASSIGNEE:

LIFE TECHNOLOGIES, INC.
9800 MEDICAL CENTER DRIVE
ROCKVILLE, MARYLAND 20850

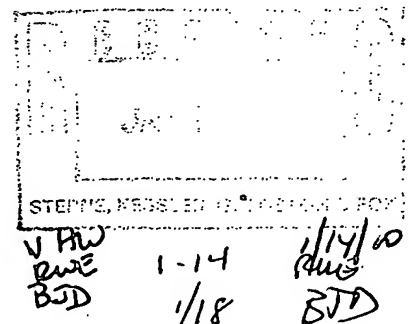
SERIAL NUMBER: 09354664

FILING DATE: 07/16/1999

PATENT NUMBER:

ISSUE DATE:

SHIRLIE SIMON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Robert W. BLAKESLEY and Mindy D. GOLDSBOROUGH, the undersigned inventor(s) hereby sell(s) and assign(s) to Life Technologies, Inc., 9800 Medical Center Drive, Rockville, Maryland 20850 (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as Archiving of Vectors for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 9/1/99 and 10/4/99 (also known as United States Application No. 09/354,664, filed July 16, 1999), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

RUE Reg. No. 32,84

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire,

Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: Sept. 1, 1999 Signature of Inventor: Robert W. Blakesley
Robert W. BLAKESLEY

Date: Oct. 4, 1999 Signature of Inventor: Mindy D. Goldsborough
Mindy D. GOLDSBOROUGH



10-20-1999



101175448

RECORDATION FORM COVER SHEET
PATENTS ONLYForm PTO-1595
6-93U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1. Robert W. BLAKESLEY and
2. Mindy D. GOLDSBOROUGH

Additional name(s) of conveying party(ies) attached? ☐ yes ☒ no

3. Nature of Conveyance:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other | |

Execution Date(s): September 1, 1999 and October 4, 1999.

2. Name and address of receiving party(ies):

Name: Life Technologies, Inc.

Street Address: 9800 Medical Center Drive

City: Rockville State: Maryland Zip Code: 20850

Country: United States

Additional name(s) & address(es) attached? ☐ yes ☒ no

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No(s). 09/354,664

B. Patent No(s).

Additional numbers attached? ☐ yes ☒ no

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

Internal Address: c/o

Street Address: 1100 New York Ave., N.W.
Suite 600

City: Washington State: D.C. Zip Code: 20005-3934

6. Total number of applications and patents involved

1

7. Total fee (37 C.F.R. § 3.41).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to Deposit Account

8. Deposit Account Number: 19-0036

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Brian J. Del Buono
Name of Person Signing
Registration No. 42,473

Signature

Date

Total number of pages including cover sheet, attachments and document 3

OMB NO. 0651-0011 (exp. 4/94)

0/20/1999 BNG:YEN 00000076 09354664

1 FC:581

40.00-00

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231



DEC/KAP 55670(458-8)

UNITED STATES
PATENT AND
TRADEMARK OFFICE

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SEPTEMBER 11, 2003

IP GROUP OF EDWARDS & ANGELL LLP
KATHRYN A. PIFFAT
P.O. BOX 9169
BOSTON, MA 02209

EDWARDS & ANGELL LLP
IP DOCKETING DEPT. (BOS)

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



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UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 04/16/2003

REEL/FRAME: 013959/0882
NUMBER OF PAGES: 4

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
LIFE TECHNOLOGIES, INC.

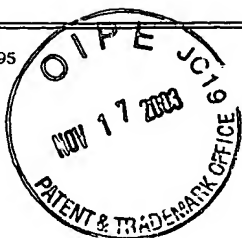
DOC DATE: 09/13/2000

ASSIGNEE:
INVITROGEN CORPORATION
1600 FARADAY AVEUE
CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09354664
PATENT NUMBER:

FILING DATE: 07/16/1999
ISSUE DATE:

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



04-18-2003



Attorney Docket No.: 45858/55670

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

R.

102423404
PATENTS ONLY

ER SHEET

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Life Technologies, Inc.

4-16-03

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Invitrogen Corporation
Street Address: 1600 Faraday Avenue
City, State: Carlsbad, California 92008

Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

- ☐ Assignment ☒ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: 13 September 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/354,664

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kathryn A. Piffat, Ph.D. (Reg. No.:34,901)
Street Address: Intellectual Property Group of
Edwards & Angell, LLP
P.O. Box 9169
City: Boston State: MA Zip: 02209

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41):.....\$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number: 04-1105

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kathryn A. Piffat, Ph.D. (Reg. No.: 34,901)
Name of Person Signing

Kathryn A. Piffat, Ph.D.
Signature

April 11, 2003
Date

Total number of pages including cover sheet, attachments, and documents: 4

State of Delaware
Office of the Secretary of State PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"LIFE TECHNOLOGIES, INC.", A DELAWARE CORPORATION,
WITH AND INTO "INVITROGEN CORPORATION" UNDER THE NAME OF
"INVITROGEN CORPORATION", A CORPORATION ORGANIZED AND EXISTING
UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED
IN THIS OFFICE THE THIRTEENTH DAY OF SEPTEMBER, A.D. 2000, AT
4:30 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF
THE AFORESAID CERTIFICATE OF MERGER IS THE FOURTEENTH DAY OF
SEPTEMBER, A.D. 2000.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

2753431 8100M

AUTHENTICATION: 1091840

010167384

DATE: 04-20-01

9-13-00 12:58
RECEIVED 9/13/2000 11:14 AM

GCMF:GTO-

302 674 8340;# 2/ 7
NO. 157 002

**CERTIFICATE OF MERGER
MERGING
LIFE TECHNOLOGIES, INC.
INTO
INVITROGEN CORPORATION**

Pursuant to Section 251 of the
General Corporation Law of Delaware

The undersigned corporation, organized and existing under and by virtue of the General Corporation Law of the State of Delaware, does hereby certify:

FIRST: That the name and state of incorporation of each of the constituent corporations of the merger is as follows:

Name	State of Incorporation
Life Technologies, Inc.	Delaware
Invitrogen Corporation	Delaware

SECOND: That an agreement and plan of merger between the parties to the merger has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations in accordance with the requirements of Section 251 of the General Corporation Law of the State of Delaware.

THIRD: That Invitrogen Corporation, a Delaware corporation, shall be the surviving corporation of the merger and its certificate of incorporation shall be the certificate of incorporation of the surviving corporation.

FOURTH: That the executed agreement and plan of merger is on file at the principal place of business of the surviving corporation. The address of the principal place of business of the surviving corporation is 1600 Faraday Avenue, Carlsbad, CA 92008.

FIFTH: That a copy of the agreement and plan of merger will be furnished by the surviving corporation, on request and without cost to any stockholder of any constituent corporation.

(Remainder of Page Intentionally Left Blank)

SENT BY:

9-13-00 12:58

GCTF:GTO-


302 674 8340:# 3/ 7
NJ.157 503

SIXTH: That this Certificate of Merger shall be effective at 3:00 p.m. on
September 14, 2000.


Dated: September 13, 2000

Invitrogen Corporation,
a Delaware corporation

By:


Lyle C. Turner
President and CEO

ATTEST:


James R. Gilm
Executive V.P. and CFO



Docket No. 45858/55670

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Blakesley *et al.*

EXAMINER: Brusca, J.

SERIAL NO. 09/354,664

GROUP: 1631

FILED: July 16, 1999

FOR: ARCHIVING OF VECTORS

CERTIFICATE OF MAILING

I hereby certify this correspondence and the documents referred to as attached herein are being deposited with the United States Postal Service as First Class Mail addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on April 11, 2003.

By: 

Sharon Bizokas

BOX ASSIGNMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

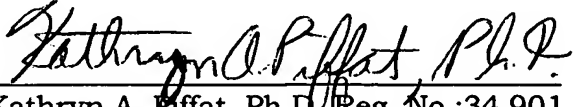
Transmitted herewith for filing in the above-referenced patent application are the following documents:

1. Executed Certificate of Merger from Life Technologies, Inc. to Invitrogen Corporation;
2. Merger Recordation Cover Sheet (1 page);
3. Executed Assignment from Invitrogen Corporation to Whatman, Inc. (2 pages);
4. Assignment Recordation Cover Sheet (1 page);
5. Two checks in the amount of \$40.00 representing the Recordal Fee for Merger and Assignment;
6. This Transmittal Letter (x2); and
7. Return Receipt Postcard.

The Commissioner is hereby authorized to charge any excess fees that may be required, or credit any overpayment to Deposit Account No. **04-1105**. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: April 11, 2003

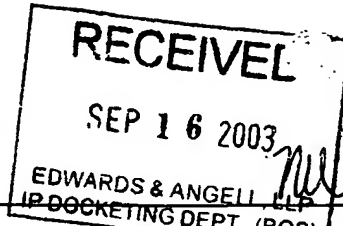

Kathryn A. Piffat, Ph.D. (Reg. No.: 34,901)
Intellectual Property Practice Group
EDWARDS & ANGELL, LLP
P.O. Box 9169
Boston, Massachusetts 02209

DEC/KAP 55670 (45848)



UNITED STATES
PATENT AND
TRADEMARK OFFICE

NOTED ON SYSTEM



SEPTEMBER 11, 2003

PTAS

EDWARDS & ANGELL, LLP
KATHRYN A. PIFFAT
DIKE, BRONSTEIN, ROBERTS & CUSHMAN GROUP
P.O. BOX 9169
BOSTON, MA 02209

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/16/2003

REEL/FRAME: 013959/0911
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

INVITROGEN CORPORATION

DOC DATE: 06/22/2001

ASSIGNEE:

WHATMAN BIOSCIENCE LIMITED
200 WELLS AVENUE
NEWTON, MASSACHUSETTS 02459-3304

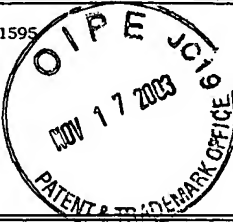
SERIAL NUMBER: 09354664

PATENT NUMBER:

FILING DATE: 07/16/1999

ISSUE DATE:

JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

FORM PTO-1595
(Rev. 6-93)

04-18-2003



102423403

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeFORM COVER SHEET
IS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Invitrogen Corporation

4-16-03

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Whatman Bioscience LimitedStreet Address: 200 Wells AvenueCity: Newton State: Massachusetts Zip: 02459-3304

Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: 6/22/01 & 7/9/01

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/354,664

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Kathryn A. Piffat, Ph.D. (Reg. No.: 34,901)
 Street Address: Dike, Bronstein, Roberts & Cushman
Intellectual Property Group of
Edwards & Angell, LLP
P.O. Box 9169
 City: Boston State: MA Zip: 02209

6. Total number of applications and patents involved: [1]7. Total fee (37 CFR 3.41):.....\$40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: 04-1105

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature. *To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Kathryn A. Piffat, Ph.D. (Reg. No.: 34,901)
 Name of Person Signing

Kathryn A. Piffat, Ph.D.
 Signature

April 11, 2003
 Date

Total number of pages including cover sheet, attachments, and documents: 3

OFFICE OF PUBLIC RECORDS
 2003 APR 16 AM 7:59
 FINANCE SECTION

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ASSIGNMENT

WHEREAS, Invitrogen Corporation., a corporation organized under the laws of USA, having a place of business at 1600 Faraday Avenue Carlsbad, CA 92008 (hereinafter called the Assignor), is the proprietor of the following United States Patent and Applications (hereinafter referred to as "Patent and Applications"):

Pat/Application. No.

09/354,664

60/093,073

60/100,737

US 5,316,908

WHEREAS, Whatman Inc., a corporation organized under the laws of the state of Massachusetts, having a place of business at 200 Wells Avenue Newton, MA 02459 (hereinafter called the Assignee), is desirous of acquiring the rights, title and interests of the Assignor in and to the Patent and Applications.

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (US\$1.00) paid by the Assignee to the Assignor upon the signing of these presents and other consideration, the receipt and sufficiency of which sum is hereby acknowledged, the Assignor hereby assigns to the Assignee, the Assignee's heirs, executors, administrators all the Assignor's rights, title and interests in and to the aforesaid U.S. Patent and Applications, the right of claiming priority for the Patent and Applications as well as the emoluments, advantages, profits, and benefit accruing or belonging thereto.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said application, said invention and said patent(s) as may be known and accessible to the undersigned, and will testify as to the same in any interference or litigation related thereto, and will promptly execute and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or said patent(s) in connection with any interference which may be declared, and any litigation concerning this application or any continuation, division or reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

ASSIGNOR: Invitrogen Corporation

By Alan Hammond Date June 22, 2001
Name (Print): ALAN HAMMOND
Title: Chief Intellectual Property Counsel

ASSIGNEE: Whatman, Inc.

By James C. Davis Date July 9, 2001
Name (Print):
Title: James C. Davis, Ph. D.
Vice President, R & D
Whatman, North America



Docket No. 45858/55670

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Blakesley *et al.*

EXAMINER: Brusca, J.

SERIAL NO. 09/354,664

GROUP: 1631

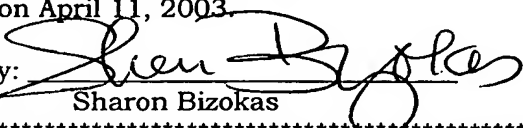
FILED: July 16, 1999

FOR: ARCHIVING OF VECTORS

CERTIFICATE OF MAILING

I hereby certify this correspondence and the documents referred to as attached herein are being deposited with the United States Postal Service as First Class Mail addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on April 11, 2003.

By:


Sharon Bizokas

BOX ASSIGNMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

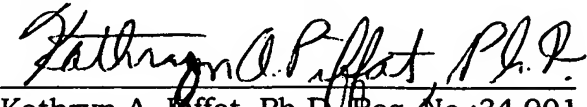
Transmitted herewith for filing in the above-referenced patent application are the following documents:

1. Executed Certificate of Merger from Life Technologies, Inc. to Invitrogen Corporation;
2. Merger Recordation Cover Sheet (1 page);
3. Executed Assignment from Invitrogen Corporation to Whatman, Inc. (2 pages);
4. Assignment Recordation Cover Sheet (1 page);
5. Two checks in the amount of \$40.00 representing the Recordal Fee for Merger and Assignment;
6. This Transmittal Letter (x2); and
7. Return Receipt Postcard.

The Commissioner is hereby authorized to charge any excess fees that may be required, or credit any overpayment to Deposit Account No. **04-1105**. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: April 11, 2003


Kathryn A. Piffat, Ph.D. Reg. No.: 34,901
Intellectual Property Practice Group
EDWARDS & ANGELL, LLP
P.O. Box 9169
Boston, Massachusetts 02209